

Proceedings (Cont.)

CZECH/2433

Kalvoda, R., and J. Zyka. Polarometric Determination
of Derivatives of Barbituric Acid With the Aid of
Mercuric Salts

550

Blazek, A. Polarometric Determination of Some Unsaturated
Organic Compounds

555

[Russian Translation]

561

[English Translation]

563

Pleticha, R. Determination of Diacetyl

566

[Russian Translation]

569

[German Translation]

572

Buchniček, J. Content of Colchicine in the Development of
the Meadow Saffron

576

Sandholec, B. Use of Polarographs in the Paper and
Cellulose Industries

579

Zuman, P. Polarographic Determination of Sulfhydryl
Substances in Fruit

582

Card 9/14

Proceedings (Cont.)

CZECH/2433

[Russian Translation]
[English Translation]

601

603

Knobloch, E. Hydrolytic Decomposition of the Oxidation
Product of 2-methyl-1,4-aminonaphthol (Vitamin K₅)

607

Bitter, B. Polarography of Ascaridole

617

Kleinzeller, A., and Z. Fencel. Muconic Acid in Bacteria

619

[Russian Translation]

620

[English Translation]

622

Nosek, J.J., O. Krestýnová, and R. Podivinsky. Polaro-
graphy of Steroids

624

[Russian Translation]

628

[English Translation]

630

✓ Santavy, F. Polarography of Cardiac Poisons With Five-or
Six-member Lactone Rings

632

Card 10/14

Proceedings (Cont.)	CZECH/2433
Santaury, F. Polarography of the Oxidation Products of Some Morphine Derivatives	635
[Russian Translation]	637
[German Translation]	638
✓ Simane, J. Polarographic Determination of Oxygen in Blood	640
✓ Doskocil, J. Polarographic Study of Some Biological Redox Indicators	645
[Russian Translation]	648
[English Translation]	649
✓ Doskocil, J. Polarographic Study of Some Peroxidatic Oxidations	651
[Russian Translation]	657
[English Translation]	659
Homolka, J. and V. Krupicka, Study of Brdicka's Filtrate Reaction in Serum	662
[Russian Translation]	664
[German Translation]	665

Card 11/14

Proceedings (Cont.)

CZECH/2433

Svatek, E. Study of Catalytic Reactions at a Dropping
Mercury Electrode 667

Koryta, J. Decomposition Rate of the Complex of
Nitrilotriacetic Acid With Cadmium 672

Smutek, M. Slow Electrode Reactions 677
[Russian Translation] 683
[English Translation] 687

Hanus, V. Polarographic Study of the Recombination of
Phenylglyoxylic Acid 691

Koutecky, J. Linear Systems of Electrode Reactions in
Which a Chemical Reaction in Solution Takes Place 699

Pliva, J. Contribution to the Theory of Diffusion Cur-
rents 708
[Russian Translation] 712
[English Translation] 717

Card 12/14

Proceedings (Cont.)

CZECH/2433

Tockstein, A. Derivation of the Extended Equation of the Polarographic Curve	721
[Russian Translation]	725
[German Translation]	727
Vogel, J. A New Apparatus for Oscillographic Polarography	731
[Russian Translation]	736
[German Translation]	739
✓/ Riha, J. Polarographic Derivative Curves	743
[Russian Translation]	746
[German Translation]	748
Nesvadba, O. Artificial Regulation of the Drop Time	751
[Russian Translation]	757
[English Translation]	758
Ezr, K. Vacuum-tube Polarograph	760
[Russian Translation]	763
[German Translation]	767

Card 13/14

Proceedings (Cont.)

CZECH/2433

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Card 14/14

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Oscillographic determination of oxygen and some noxious gases in the atmosphere of workrooms. J. Heyrovsky (Czech Acad. Sci., Prague). *Sbornik Československé Konf. Anal. Chemiků* 1, 300-4 (1952) (Pub. 1953). -- O in the air is detd. by bubbling the air through a soln. of $N LiCl$ and $0.005-0.1N MnCl_2$, which is subjected to oscillographic polarography; the oxidation of Mn^{2+} by O gives rise to characteristic breaks in the curve. CS_2 and H_2S cause breaks when bubbled through a soln. of $2M HOAc$ and $2M NaOAc$; they can be detd. in the presence of each other by bubbling through a soln. of $N NH_4OH$ and $N NH_4Cl$; they can also be absorbed permanently, and subsequently detd. in a mixt. of 70 ml. $4N LiCl$, 70 ml. $EtOH$, and 3 ml. 83% Et_3NH (Et_3NH and CS_2 form diethyldithiocarbamate). SO_2 is detd. by bubbling the air through a soln. of $2N H_2SO_4$; Me_2CO and Et_2O are detd. by bubbling the air through 25% HCl . H. Newcombe.

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Czechoslovakia CA:47:10094

Central Polarographic Inst., Opletalova 25, Prague, Czech.

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Vol. 48 No. 9
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18, Suppl. 1, 30 pp. (1953); cf. C.A. 46, 6946i. R. H.~~

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[in English with summary in Russian]. Sbor.Cech.khim.rab. 18 no.6:739-748
D '53. (MLRA 7:6)

1. Polarographic Institute, Czechoslovak Academy of Science, Prague.
(Penicillin) (Oscillograph)

①
 *The Oscillographic Depolarization Effect Due to Alkali Ions.
 J. Heyrovský (Coll. Czechoslov. Chem. Commun., 1958, 18, (6), 729-736). [In English]. An oscillographic depolarization effect is obtained with the dropping Hg electrode provided that the base electrolyte consists of Li^+ in concentrations $> 2N$. 10^{-2} - $10^{-4}M\text{-AP}^+$ causes a sharp shift in the cathodic and anodic branches of the oscillogram at -1.2 V . Increased o.d. at the Hg capillary electrode shifts the depolarization to -1.0 V , whilst with decreased o.d. the potential is $\sim -1.5\text{ V}$. These results are explained by the formation of LiAlH_4 ; evidence is offered of the existence of this compound at the cathode interface. J. H. H.

Polarographic Inst., Czech. Acad. Sci., Prague.

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SO: Monthly List of East European Accessions, LC., Vol. 3, No. 1, Jan. 1954, Uncl.

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Oscillographic depolarization effect of aluminum ions.
 Jaroslav Heyrovsky (Polarograph, Ústav ČSAV, Prague, Czech.). *Chem. Zvesti* 47, 1702-7 (1953).—The depolarization effect of Al^{3+} ions is observed oscillographically only when excess Li^+ salt is present in concns. greater than 2*N*. The *ds/dt* vs. *v*. curves show a sharp cathodic "cut-in" at about -1.2 v. and the nearly reversibly corresponding anodic cut. At higher c.d.s. the Al^{3+} cuts are shifted to more pos. potentials up to -1.0 v., at lower ds. they drift in the opposite direction up to about -1.5 v.; the cuts are more pos. than the polarographic half-wave potential of Al^{3+} (-1.70 v.). The oscillographic depolarization effects of Al^{3+} are explained as follows: in the electrode interphase a compd. $LiAlH_4$ (I) is formed from the Li^+ , Al^{3+} , and H^+ ; I is oxidized during the anodic potential phase to H^+ , Al^{3+} , and Li^+ . After the addn. of $HCHO$, the reducing power of I becomes apparent by the formation of new oscillographic cuts which are due to the reversible reduction of $HCHO$. The salts of quaternary amines and of pyridine give similar cuts. The depolarization effects mentioned are specific for Al^{3+} ; the detn. of Al^{3+} can be carried out by oscillographic or polarometric titrations. Also in *Collection Czechoslov. Chem. Commun.* 18, 749-50 (1953) (in English).

E. Brecht

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The effect of gelatin in oscillographic polarography. Jaroslav Heyrovsky. Collection Czechoslov. Chem. Commun. 1964, 29, 68-67 (1964); XVIIth Intern. Congress Pure Appl. Chem., Stockholm, 1953; (in English). Notches on the cathodic and anodic branches of the oscillographic curve appear at the same potential if the reaction is reversible. Up to 0.3% gelatin does not affect the shape of the curves when univalent cations are reduced, but the notch is practically wiped out from the cathodic branch of the curve when bi- or multivalent cations are reduced. It is postulated for the latter reactions that the reduction consists of 3 successive processes: (a) the acceptance of a single electron, (b) using of the formed excited lower-valency ion, and (c) disproportionation of 2 such aged ions, which may be retarded in the presence of gelatin. The retarding effect can be counterbalanced by the presence of very small amounts of deformable anions, such as Cl^- , Br^- , CNS^- , or I^- . The gelatin effect is absent in reductions involving only one electron, such as $[\text{Fe}(\text{oxalate})]^{3-} \rightarrow [\text{Fe}(\text{oxalate})]^{2-}$ in excess Na oxalate and oxalic acid, or $\text{Mn}^{3+} \rightarrow \text{Mn}^{2+}$ and $\text{Fe}^{3+} \rightarrow \text{Fe}^{2+}$ in excess of alk. triethanolamine. These phenomena occur at the dropping as well as at the streaming Hg electrode. However, to avoid the influence of consecutive and side reactions, only the latter electrode is used in studies of the reactions of org. substances. From the effect of gelatin on the shape and magnitude of the notches on the oscillographic curves conclusions can be drawn about the nature of the electrode reaction. Not only can one establish the number of electrons involved in consecutive reactions, but one may distinguish between processes due to simple diffusion, and processes dependent on the rate of a chem. reaction involved in the electrode process. Otto H. Müller

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1. Direktor Polyarograficheskogo instituta Chexoslovatskoy Akademii nauk.
(Czechoslovakia--Polarograph and polarography--Congresses)

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Oscillographic polarography. p. 603.
TECHNICKA PRACA, Bratislava, Vol. 6, no. 10, Oct. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6.
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"Mechanism of Electrode Processes." p. 617,
(CHEMICKÉ ZVESTI, Vol. 8, No. 10, Dec. 1954, BRATISLAVA, CZECHOSLOVAKIA)

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No. 5, May 1955, Uncl.

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Polarographic Method in 1953. (English.) J. Heyrovsky
Collection of Czechoslovak Chemical Communications, v. 19,
1954, p. 15-285.
A continuation of the author's bibliography of polarographic
publications for the period 1922 to 1950.

Heyrovský, J.

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Analyses with the electronic polarograph
 The method of Heyrovsky and Kuta for
 polarography employs a modification of classical
 polarography with alternating current in which the limiting
 representation of the function $dV/dt = f(V)$ is photographed.
 The quantity of the depolarizer can be detd. either by the
 area of the cut-in on the diagram or by a comparative titra-
 tion method (C.A. 48, 7840c). Oscillograms are shown of
 various sulfonamides, local anaesthetics (procaine, meprob-
 amide, and nupercaine), barbiturates, etc.

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YUC ACIDS, VITAMINS, ANTIBIOTICS, AND OTHER PHARMACEUTICALS



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The polarograph and its use. Priroda 44 no.11:71-76 N '55.
(MLRA 9:1)

1.Chlen Chekheslevatskey Akademii nauk, direktor Polyarogra-
ficheskogo instituta v Prage.
(Polarograph)

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✓ Polarographic maxima owing to the anodic solution of mercury in alkaline solution. J. Heyrovský and A. Trifonov (Polarogr. ústav CSAV, Prague). *Chem. Listy* 40, 783 (1966). — The anodic max. observed with the dropping Hg electrode in 0.1N NaOH at the potential of 0.48 v. (against satd. HgCl electrode) is followed by discontinual decrease of the polarographic current. A microscopic investigation of this phenomenon showed that the bright Hg surface during the electrolysis is covered by a thin layer which is then disturbed by further growth of the Hg drop. These surface films are formed by anodic pptn. of the Hg hydroxide or oxide. As shown by oscillographic study, every current impulse is enabled by disturbing the surface film. This current decreases proportionally to the formation of the insulating layer. Restoring of this layer leads to anodic passivity.

F. Stránský

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✓ Bohuslav Brauner. Jan St. Stěcha Kola, J. Heyrovsky,
E. Svaz, J. H. Knapka, and G. Némec. *Czech. J. Phys.* 48:
780-813 (1955).—Biography on the 10th anniversary of
Brauner's birthday with a portrait. M. Heyrovsky.

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CZECHOSLOVAKIA/General Problems.

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Abs Jour : Ref Zhur - Khimiya, No 10, 1957, 3339⁴

Author : Heyrovsky J., Szagr T., Krpelka J.N., Nemec B.

Inst :

Title : Recollections on Professor Bohuslav Brauner.

Orig Pub : Chem. listy, 1955, 49, No 6, 802-813.

Abstract : No abstract.

Card 1/1

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1956-19

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New trends in polarography. In German. p. 3. (Acta Chimica, Vol. 9, No. 1/4, 1956, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

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Bulgaria/ Physical Chemistry - Electrochemistry

B-12

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11377

Author : Heyrovsky J., Trifonow A.

Inst : Bulgarian Academy of Sciences

Title : Concerning the Nature of Polarographic Maxima on Anodic Dissolution of Mercury in Alkaline Medium

Orig Pub : Ueber die Natur der polarographischen anodischen Maxima in alkalischer Loesung.
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Abstract : See RZhKhim, 1956, 15728

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General remarks on oscillographic polarography. In German. p. 73. (Acta Chimica, Vol. 9, No. 1/4, 1956, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

ELN 7 11, 3.

On the eve of volum. ten of Chemické zvesti. p.5. CHEMICKÉ ZVESTI.
(Slovenské chemické vied a Spolok chemikov na Slovensku) Bratislava.
Vol. 10, no.1, Jan. 1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress
Vol. 5, no. 12, 1956, December.

HEYROUSKY JAROSLAV

General remarks on oscillographic polarography. Jaroslav Heyrovsky (Czechoslovak Acad. Sci., Prague). *Acta Chim. Acad. Sci. Hung.* 9, 73-81 (1935) (in German) (English summary); cf. C.A. 51, 12703t. — Compds. inefficient as polarographic depolarizers (e.g., La ions or C_6H_6) can show a depolarizing action in oscillography. This offers a general analytical method qualitatively more, but quantitatively less precise than classical polarography. Curves of V vs. t , dV/dt vs. t , dV/dt vs. V (V = potential, t = time), and the oscillographic spectrum of N KOH alone and with Ti^{4+} , Pb^{2+} , Zn^{2+} , and nitrobenzene are presented. The presence of CS_2 , HCN , and C_6H_6 in the atm. was detected by an "electronic polaroscope" of special construction.

H. K. Zimmerman

HEYROVSKY J.

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Polarographic Congress in Prague 1964 and in
other publications. Call Czech Acad. Sci. 1964
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Author : J. Heyrovsky

Inst : -

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serve for qual. as well as quant. analysis. The application
of this instrument is illustrated by analyses of: (a) vitamin
B₂, pteroylglutamic acid, and mixts. of both, (b) Aureomycin,
chloromycetin, and mixts. of both, and (c) CH₄, SO₂, H₂S,
HCN, and acetylene in air. Outstanding differences
between oscillographic and conventional polarography are
pointed out. Otto H. Müller

PM
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H. K. Zimmerman

guf

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CATEGORY	:	
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AUTHOR	: <u>Leypovsky, J.</u>	
NOTE	: Not given	
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Title : Tunnel Kilns and Their Use.

Orig Pub: Sklar a keramik, 1956, 6, No 9-10, 234-242.

Abstract: An historical review of the development of the construction of tunnel kilns (TK) starting from the appearance of the first TK in France in 1751 is given. Special attention is paid to the question of heating, the work of burners and the distribution of temperatures within the volume and in the cross-section of TK-s. Known data concerning refractory materials for the lining of TK-s are related. TK-s with electrical heating are kilns of the future, but the temperature of burning in them does not exceed 1450° (usually 1300 to 1350°) so far. Bibliography with 32 titles.

Card : 1/1

-97-

HEZKY, V.

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and
Their Application, Part 2. Ceramics, Glass,
Binders, Concretes. - Ceramics.

H-12b

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22094

Author : V. Hezky.

Inst : -

Title : Dilution of China Mass with Optimum Amount of Water.

Orig Pub : Sklar a keramik, 1957, 7, No 9, 265-272

Abstract : The content of water in china masses (M) often proves to be 32 to 36% at the checking of the mass quality at china ware factories in Czechoslovakia, while according to the norms of the technological process it should be 30%. An amendment of the dilution by the addition of alkaline diluents (D) and protection colloids, of liquid glass in particular, allows to decrease the moisture in the M and to make the casting process easier. Experiments were carried out to match the D-s for china M (4% by weight):

Card 1/2

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and
Their Application, Part 2. Ceramics, Glass,
Binders, Concretes. - Ceramics.

H-12b

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22094

kaolin - 42.1, silica - 14.6, felspar - 34.7, china shards - 8.6. The viscosity of the M was determined at the matching of the D-s (by measuring the rate of its outflow, 100 mlit per sec.) and the rate of the shard arrangement following the plaster-of-Paris mould was determined also. Using combined D-s consisting of soda, ammoniac gum and citric acid with an addition of liquid glass, the water content in the M was successfully decreased to 25 or 26%, while the arrangement of shards following the mould was carried out rapidly without appearance of cracks and creases. It is recommended to use a combination of D-s matched for every batch of the M depending on its composition and peculiarities.

Card 2/2

HIBA, Miodrag, inz. (Beograd, Dure Salaja 4)

Computation of building construction by electronic calculating machines, especially by the Univac 60 computer. Tehnika Jug: Suppl.:Gradevinarstvo 17 no.1:41-53 Ja '63.

1. Vodeci projektant Zavoda za studije, projektovanje i nadzor gradjenja Zajednice Jugoslovenskih zeleznica, Beograd, i clan Redakcionog odbora i zamenik urednika, "Tehnika ['Nase gradevinarstvo']".

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